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Abstract

A system automatically adaptively modifies a fail-over configuration priority list of back-up devices of a group (cluster) of processing devices to improve availability and reduce risks and costs associated with manual configuration. A system is used by individual processing devices of a group of networked processing devices, for managing operational failure occurrences in devices of the group. The system includes an interface processor for maintaining transition information identifying a second processing device for taking over execution of tasks of a first processing device in response to an operational failure of the first processing device and for updating the transition information in response to a change in transition information occurring in another processing device of the group. An operation detector detects an operational failure of the first processing device. Also, a failure controller initiates execution, by the second processing device, of tasks designated to be performed by the first processing device.